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ABSTRACT

This publication presents science, mathematics, and technology programs that are fully aligned with Vermont's Framework of Standards and Learning Opportunities. It also identifies elementary, middle, and high school programs that incorporate content and best practices as identified by the Vermont framework. The materials in the accompanying list were reviewed by a team of Vermont classroom teachers from 1996 through 1998. Over the three year period, team members were instrumental in devising the rubrics used for review in addition to their role in reviewing individual programs for alignment. Each team member received training in the use of the review criterion and scoring rubrics to develop consistency between reviews. (ASK)

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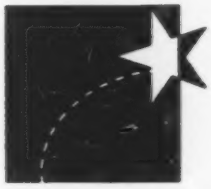
VERMONT INSTITUTE FOR SCIENCE, MATH, AND TECHNOLOGY



PUBLISHED SCIENCE, MATHEMATICS, AND TECHNOLOGY PROGRAMS

*Which Are **Fully Aligned** With*

VERMONT'S FRAMEWORK OF STANDARDS AND LEARNING OPPORTUNITIES

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The materials included in the accompanying list were reviewed by a team of Vermont classroom teachers from 1996 through 1998. Over the three year period, team members were instrumental in devising the rubrics used for review in addition to their role in reviewing individual programs for alignment. Each team member received training in the use of the review criterion and scoring rubrics to develop consistency between reviews. Without the help of the following individuals, this work would not have been possible.

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Tracy LaVallee, S. B. Central
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Vermont Educators,

Vermont's Framework of Standards and Learning Opportunities recommends numerous changes in content, assessment, and instruction in Vermont classrooms. The changes in topics and recommended practices are both small and large. Combined with the practice of "action planning" based on assessments, these changes easily comprise the largest and most significant reform in the history of math and science education in Vermont.

These recommendations require significant changes in the classroom: revised lesson plans, new materials, and changes in instructional techniques to align with the Framework and provide continuity with other classrooms and grades throughout the system. The purchase of new curricula that reflect the new national and state standards can save teachers a significant amount of time. But there are many programs available from countless publishers, including a growing number which proclaim they align with new standards. Which of these claims are valid?

In the last three years VISMT, with the help of a team of 24 Vermont teachers, has examined publisher's claims and reviewed program materials (of a year or more in length), looking for those that align fully with Vermont's Framework. In this process, we have found that most published materials currently available on the market today fall into three categories:

NO ALIGNMENT

- materials written without any attention to the standards. Commonly, these materials are ones written before national mathematics and science standards were adopted. There are many, however, that were written in the last five years.

PARTIALLY ALIGNED

- materials written to address only the new content standards. In failing to implement best practices in equity, assessment, and pedagogy these materials fall far short of implementing much of the intent of standards reform.

PARTIALLY ALIGNED

- materials incorporating both the content standards and best practices (the "Learning Opportunities" in the Vermont Framework). These materials are listed on the following pages. We believe that this list is complete, effective October 1998.

Regardless of the excellence of the materials on the accompanying pages, they should not be exclusively relied upon to support classroom changes. Effective use of these materials requires a multiyear multifaceted professional development program that supports classroom teachers in teaching new content and using new assessments and pedagogy. Schools seeking help in making the changes to standards-based math, science, and technology education should contact VISMT (244-8768)

* *For information about VISMT's review process, to view copies of the detailed reviews for individual programs on the list, and for helpful information about the programs themselves (such as schools using the programs, comparative costs, etc.) visit VISMT's web site at http://www.vismt.org Click on* ***Program Areas****, then click on* ***Curriculum****.*

Fully Aligned
SCIENCE, MATHEMATICS, AND TECHNOLOGY PROGRAMS

ELEMENTARY SCIENCE	MIDDLE SCHOOL SCIENCE	HIGH SCHOOL SCIENCE
♦ DASH	♦ FACETS	♦ Active Physics*
♦ FOSS*	♦ FAST	♦ Applications in Biology/Chemistry
♦ Insights*	♦ Integrated Science	♦ Biology: A Community Context*
♦ Science & Technology for Children*	♦ Integrated Math, Science, & Technology (IMaST)*	♦ BSCS Biology: A Human Approach*
♦ Science for Life and Living*	♦ Middle School Science & Technology*	♦ ChemCom: Chemistry in the Community*
	♦ Prime Science (grades 6-10)*	♦ Insights in Biology*
	♦ Science 2000*	♦ Prime Science (grades 6-10)*
	♦ Science Interactions	♦ Science Links

* *The most recent generation of NSF funded and recommended programs.*

** *ChemCom is considered to have 'some' alignment with the Framework. If adopted we feel it could be reasonably supplemented to be brought into good alignment.*

ELEMENTARY MATHEMATICS	MIDDLE SCHOOL MATHEMATICS	HIGH SCHOOL MATHEMATICS
♦ Box It Or Bag It Mathematics	♦ Connected Mathematics*	♦ Calculus: Concepts and Applications
♦ Everyday Math*	♦ Interactive Mathematics	♦ Contemporary Mathematics in Context*
♦ Investigations in Number, Data, & Space*	♦ Integrated Math, Science, & Technology (IMaST)*	♦ Discovering Geometry
♦ Mathland	♦ MathThematics (STEM)*	♦ Integrated Math (SIMMS): A Modeling Approach Using Technology*
♦ Math Trailblazers*	♦ Mathematics in Context*	♦ Interactive Mathematics Program (IMP)*
♦ Opening Eyes to Mathematics	♦ Mathscape: Seeing and Thinking Mathematically	♦ Math Connections*
	♦ Visual Math	♦ Mathematics: Modeling our World*
		♦ Pacesetter Mathematics: Precalculus Through Modeling

	MIDDLE SCHOOL TECHNOLOGY	HIGH SCHOOL TECHNOLOGY
	♦ Technology	♦ Technology

November 1, 1998

PUBLISHERS

NOTE: *The names and numbers on this list are subject to frequent change. If you cannot reach the person indicated, contact the publisher's customer service department or connect to VISMT web site at URL <http://www.vismt.org/pub/PubList.pdf> for the most up to date contact information.*

CAROLINA BIOLOGICAL SUPPLY COMPANY
SCIENCE & TECHNOLOGY FOR CHILDREN (STC) *(Elementary Science)*
contact: Gena Wofford
phone: 1-800 227-1150 Ext. 5265
web address:
www.carolina.com/STCpg.htm

COLLEGE BOARD
PACESETTER MATHEMATICS: PRECALCULUS THROUGH MODELING *(High School Mathematics)*
contact: Steven Green
phone: 1-212-713-8302
web address: www.collegeboard.org

CREATIVE PUBLICATIONS
MATHLAND *(Elementary Mathematics)*
MATHSCAPE: SEEING AND THINKING MATHEMATICALLY *(Middle School Mathematics)*
developer's web address:
www.edc.org/mathscape
contact: Bill Hartney
phone: 1-781 826-5392 or
1-800-537-4740 ext 4913
web address:
www.creativepublications.com/
mathScape/mathscape_frameSet.html

DECISION DEVELOPMENT CORPORATION
SCIENCE 2000 *(Middle School Science)*
contact: Jeff Carter
address: 2680 Bishop Drive,
San Ramon, CA 94583
phone: 1-800 835-4332
fax: 1-510 830-0830
e-mail: ddc2000@aol.com
web address: www.ddc2000.com

DELTA EDUCATION
FULL OPTION SCIENCE SYSTEM (FOSS)
(Elementary Science)
contact: Lisa Wood
phone: 1-978-433-9781
fax: 1-978 433-6790
web address: www.delta-ed.com

ENCYCLOPEDIA BRITTANNICA
MATHEMATICS IN CONTEXT
(Middle School Mathematics)
contact: Jim Burnette
phone: 1-603-585-0359
web address: www.eb.com

EVERYDAY LEARNING CORPORATION

EVERYDAY MATHEMATICS
(Elementary Mathematics)
contact: Rosanne O'Donnell
address: 61 Captain Joshua Lane,
Norwell, MA 02061
phone: 1-781 659-7639

CONTEMPORARY MATHEMATICS IN CONTEXT
(High School Math)
developer's web address:
www.wmich.edu/math-stat/cpmp
contact: Tom Benz
phone: 1-603-595-2861
web address: www.everydaylearning.com

GLENCOE/MCGRAW-HILL

INTERACTIVE MATHEMATICS
(Middle School Mathematics)

INTEGRATED MATH, SCIENCE, AND TECHNOLOGY (IMaST)
(Middle School Math)

SCIENCE INTERACTIONS
(Middle School Science)

TECHNOLOGY (Thode)
(Middle and High School Technology)
contact: Richard Seefeldt
phone: 1-800 297-4638 (access code: 17)
e-mail: RSGlencoe@Berk.com
web address: www.glencoe.com

HOUGHTON MIFFLIN COMPANY
(School Division: McDougal Littell)

MATHTHEMATICS (STEM)
(Middle School Mathematics)
As of 8/24/98 there is no assigned representative.
For assistance, contact the publisher at:
phone: 1-800 323-5435 or:
1-800 733-2828
web addresses: www.mcdougallittell.com
or: www.hmco.com
developer's web address:
www.mlmath.com

IT'S ABOUT TIME

ACTIVE PHYSICS *(High School Science)*
web address: www.activephysics.com

MATH CONNECTIONS
(High School Math)
developer's web address:
www.mathconnections.com
web address: www.mathconnections.com
contact: Chris Fikis
phone: 1-888-698-8463 ext 531
web address: www.itsabouttime.com

KENDALL HUNT PUBLISHING COMPANY

INSIGHTS *(Elementary Science)*
SCIENCE FOR LIFE AND LIVING
(Elementary Science)
MATH TRAILBLAZERS
(Elementary Mathematics)
Developer's Web Address:
www.math.uic.edu/MSE
MIDDLE SCHOOL SCIENCE & TECHNOLOGY
(Middle School Science)
FOUNDATIONS AND CHALLENGES TO ENCOURAGE TECHNOLOGY-BASED SCIENCE (FACETS)
(Middle School Science)
PRIME SCIENCE (Grades 6-10)
(High School Science)
BSCS BIOLOGY: A HUMAN APPROACH
(High School Science)
CHEMCOM: CHEMISTRY IN THE COMMUNITY
(High School Science)
INSIGHTS IN BIOLOGY
(High School Science)
contact (Elem. and Middle Schools): Dan Dimitrofs
phone: 1-800-542-6657 ext 1125

contact (High School): Joe Haverland
phone: 1-800 542-6657 ext 1120
web address: www.kendallhunt.com

KEY CURRICULUM PRESS

INTERACTIVE MATHEMATICS PROGRAM (IMP)
(High School Mathematics)
developer's web address:
www.mathimp.org
CALCULUS: CONCEPTS AND APPLICATIONS
(High School Mathematics)
DISCOVERING GEOMETRY
(High School Mathematics)
contact: Path DiPietropolo
phone: 1-800-338-7638 ext 213, or
1-508-634-3872
web address: www.keypress.com

MATH LEARNING CENTER (MLC)

VISUAL MATH
(Middle School Mathematics)
BOX IT OR BAG IT MATHEMATICS
(Elementary Mathematics)
OPENING EYES TO MATHEMATICS
(Elementary Mathematics)
contact: Ardys Miller
phone: 1-800 575-8130
web address: www.mlc.pdx.edu

This information was updated on September 24, 1999.

SCOTT FORESMAN/ADDISON WESLEY PUBLISHING COMPANY

INVESTIGATIONS IN NUMBER, DATA, & SPACE
(Elementary Math)
web address:
www.awl.com/dsp/MainPages/Invest.html
developer's web address:
www.terc.edu/investigations/index.html

CONNECTED MATHEMATICS
(Middle School Mathematics)
developer's web address: www.msu.edu/cmp
contact: Jim O'Gara
address: P.O. Box 138, Marshfield, MA 02050
phone: 1-800 800-3014
web address: www.sf.aw.com

PEARSON CUSTOM PUBLISHING *(formerly Simon & Schuster*

INTEGRATED MATHEMATICS (SIMMS): A MODELING APPROACH USING TECHNOLOGY
(High School Mathematics)
developer's web address:
www.montana.edu/~wwwsimms
contact: Lynette Felix
phone: 1-800-693-4060
web address: www.simmsnet.com

SOUTH-WESTERN PUBLICATIONS: (THOMPSON LEARNING - DISTRIBUTOR)

SCIENCE LINKS *(High School Science)*

MATHEMATICS: MODELING OUR WORLD
(High School Mathematics)

BIOLOGY: A COMMUNITY CONTEXT
(High School Science)

APPLICATIONS IN BIOLOGY/CHEMISTRY
(High School Science)
contact: Steve Foley
phone: 1-877-430-0483 ext 8045
web address: www.swep.com

UNIVERSITY OF ALABAMA

INTEGRATED SCIENCE
(Middle School Science)
contact: Chris Theriot
address: University of Alabama/CCET,
Box 870167, Tuscaloosa, AL 35487-0167
phone: 1-800 [illegible]-8151
web address: www.ccet.ua.edu

UNIVERSITY OF HAWAII

DEVELOPMENTAL APPROACHES IN SCIENCE, HEALTH, AND TECHNOLOGY (DASH)
(Elementary Science)
web address: www2.hawaii.edu.crdg/
science/dash/dash.html

FOUNDATIONAL APPROACHES IN SCIENCE TEACHING (FAST)
(Middle School Science)
web address: www2.hawaii.edu.crdg/
science/fast.FAST.html
phone: 1-800 799-8111
web address:
www2.hawaii.edu/crdg/